

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re PATENT Application of:	Confirmation No.: 3146
Colin N.B. Cook	Attorney Docket: 2540-0707
Appl. S.N.: 10/792,286	Group Art Unit: 2155
Filing Date: March 4, 2004	Examiner: Distefano, Gregory A
Title: <b>Methods and Apparatus for Synchronizing Virtual and Physical Mouse Pointers on Remote KVM Systems</b>	Date: February 27, 2009

SUBSTITUTE APPEAL BRIEF

Hon. Commissioner of Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

In response to the Notice of Non-Compliant Brief mailed 1/30/2009, the assignee of record submits this Substitute Appeal Brief in compliance with 37 CFR 41.37 (including sections set forth in the order of 37 CFR 41.37(c)(1)).

(i) Real Party in Interest

As evidenced by the assignment recorded at reel 015471/frame 0295, the real party in interest for this appeal is Avocent Utah, a Utah Corporation having a place of business of 12257 S. Business Park Drive, Suite 160, Draper, Utah. Avocent Utah is a subsidiary of Avocent Corporation which is a Delaware Corporation having a place of business in Huntsville, AL.

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(ii) Related Appeals and Interferences

No prior and pending appeals, interferences or judicial proceedings are known to appellant, the appellant's legal representative, or assignee which may be related to, directly affect or be directly affected by or have a bearing on the Board's decision in the pending appeal.

(iii) Status of claims

A statement of the status of all the claims in the proceeding is as follows:

Claims 1 - 2 (pending and appealed)

Claims 3 - 11 (canceled)

Claims 12 - 15 (pending and appealed)

(iv) Status of amendments

The amendment after final rejection which was filed on April 14, 2008 has been indicated as being entered for the purpose of the appeal.

(v) Summary of claimed subject matter

As described in paragraph [0003], "products have been created to facilitate remote control of a computer using devices that remotely project the keyboard, video and mouse. These are typically called keyboard-video-mouse (KVM) devices." However, as described in paragraph [0004], "remote KVM systems generally employ relative movements of the mouse to keep the mouse [of the local and remote systems] in sync (e.g., move 5 pixels left from where you are). The use of relative movements is common because real physical mice use relative movements. ... Both PS/2 and USB mice send the same relative mouse movements messages."



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movement of the mouse cursor on a host computer to an absolute position other than the origin if the operating system supports the use of a USB-based human interface descriptor (HID) using absolute movement of the mouse cursor to an absolute position other than the origin.” Paragraph [0035] states “the USB protocol is utilized to provide movement of the mouse to an absolute position.” Paragraph [0031] states “a USB device ...provides a serial connection to deliver a stream of bytes between two entities.” Paragraph [0033] states “the VPC 420 captures keyboard and mouse data streams, encodes them, and transmits the streams to the VPS 400.” Paragraph [0035] recites “A PC Tablet, for example, would use one of these [HID] descriptors supporting the movement of a pointer to an absolute position.”

Lastly, claim 1 recites “synchronizing the position of a logical mouse and the position of an actual mouse using the absolute movement to the absolute position other than the origin without operator intervention.” This can be done by providing a synchronized cursor on the video image. This is described in paragraph [0034] which states “because the mouse is used as a pointing device and its motion is translated to a cursor on the video image, special processing may be used to keep the VPC cursor synchronized with the Host cursor.”

(vi) Grounds of rejection to be reviewed on appeal

There are two grounds for rejection presented in the final Office Action. The first is whether claims 1, 2, 12, 13 and 15 are unpatentable under 35 U.S.C. 102(b) as being anticipated by U.S. Patent Publication No. 2002/0038334 (hereinafter “the ‘334 publication”).<sup>1</sup> The second grounds for rejection is whether claim 14 is unpatentable

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<sup>1</sup> The Office Action states “Claims 1, 2, 12, 13 and 15 are rejected under 35 U.S.C. 102(b) as being unpatentable over Schneider et al. (US 2002/0038334) ... in view of Williams et al (US 2002/0129353).” As anticipation

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under 35 U.S.C. 103 over the '334 publication in view of U.S. Patent No. 5,828,372 (hereinafter "the '372 patent").

(vii) Argument

A. Rejection of claims 1, 2, 12, 13 and 15 under 35 U.S.C. 102

The rejection of the Office Action should be reversed based on either or both of at least two different points. The first point is whether the '334 publication teaches testing for support for HID's using absolute movement. The second is that the Office Action utilizes an incorrect interpretation of the term "absolute" as it is used in the phrases "absolute movement" and "absolute position."

A1. Testing for Support for HID's Using Absolute Movement

Claim 1 recites "testing an operating system of the logical mouse to determine if the operating system of the logical mouse supports the use of a USB-based human interface descriptor (HID) using absolute movement of a mouse cursor to an absolute position other than the origin." The Office Action states that the '334 publication teaches "basic system testing" and "transferring mouse and keyboard signals"; however, even if true, this is not inherently "testing ... to determine if the operating system of the logical mouse supports the use of a USB-based human interface descriptor (HID) using absolute movement of a mouse cursor to an absolute position other than the origin" as required by claim 1.

The Office Action further states "The examiner finds that Schneider's teaching of mouse controls implementing a USB interface encompasses applicant's limitation of

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rejections are not based on combinations of references, and as Williams is never discussed in the body of the rejection, it has been understood that the summary of rejection is in error.

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using ‘USB-based-HID’ since all input sent from a USB mouse would be a USB HID.” However, such an assertion ignores that the claimed testing is for a particular type of HID -- one that supports *absolute* movement of a mouse cursor. This testing must be done because, as described in paragraph [0036], “Although each [operating system] supports USB, every operating system may not support a specific set of HID.” Thus, an operating system could support the use of a USB-based human interface descriptor (HID) using *relative* movement of a mouse cursor to a *relative* position without supporting the use of a USB-based HID using *absolute* movement of a mouse cursor to an *absolute* position. Accordingly, this limitation is not anticipated as anticipation requires that the Office Action provide *evidence* that the limitation is actually met, not that it could have been met or could have been added.

It appears that the Advisory Action provides additional insight into the misapplication of the anticipation standard in the outstanding rejection. The Advisory Action states “the examiner fails to find this as the ‘334 publication teaching AWAY from ‘testing an operating system ... to determine if the operating system of the logical mouse support[s] the use of a USB-based human interface descriptor.” The concept of “teaching away” is not applicable in an anticipation rejection, but rather is used as part of an obviousness standard. Furthermore, by having to discuss whether the ‘334 publication teaches away from this limitation, it is clear that even the Advisory Action realizes that there is no evidence to support an assertion that the ‘334 publication teaches “testing an operating system ... to determine if the operating system of the logical mouse support[s] the use of a USB-based human interface descriptor” -- because it does not.

Since the Office Action has not shown that this limitation of claim 1 is explicitly or inherently taught by the ‘334 publication, and since whether a reference “teaches away” is irrelevant to an anticipation rejection, this rejection should be REVERSED.

A2. The Meaning of “Absolute”

Claim 1 recites “testing an operating system of the logical mouse to determine if the operating system of the logical mouse supports the use of a USB-based human interface descriptor (HID) using *absolute* movement of a mouse cursor to an *absolute* position other than the origin.” The Office Action asserts that the ‘334 publication teaches this limitation as it can move to an absolute position. However, the claim requires that absolute position be moved to by using “absolute movement” -- which the ‘334 publication does not teach.

The Advisory Action further clarifies the position of the Office Action by stating “the examiner interprets ‘absolute movement’ to be any form of movement which moves the cursor to the set location.” The Advisory Action alleges that this interpretation is appropriate because the “sole explanation of what applicant defines as ‘absolute movement’ is given in the[] specification at paragraph [0035] where applicant states ‘move to coordinates x543, y234.’” That allegation ignores the discussion of the distinction between absolute and relative movement from paragraph [0004] that was noted in the last response (dated April 14, 2008). As described above, paragraph [0004] states:

remote KVM systems generally employ relative movements of the mouse to keep the mouse [of the local and remote systems] in sync (e.g., move 5 pixels left from where you are). The use of relative movements is common because real physical mice use relative movements. Since computer operating systems ... are sometimes busy with other tasks, the mouse movement messages may be lost or skipped. Therefore, if a virtual pointer is maintained in a remote KVM system, it may no longer be in sync with

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the originating system. ... Consequently, it is desirable to implement a mouse synchronization system for use with a remote KVM system that can synchronize mouse movements based on an absolute position.

The Advisory Action even seems to acknowledge the inconsistency in its own position when it admits "the '334 publication ... utilizes *relative* movement to move the cursor to the target location" but asserts that this is acceptable because "this is seen as an implementation of 'absolute movement' as applicant's claim limitations are mute to their method as NOT UTILIZING relative movement." It is respectfully noted that the phrase "absolute movement" by itself indicates that the claim is NOT claiming utilizing relative movement since "relative" and "absolute" are opposites. See the definitions of "absolute" from dictionary.com as submitted in the response dated April 14, 2008 and included in the Evidence Appendix attached hereto.

From dictionary.com unabridged:

- (adj.) 6. viewed independently; not comparative or relative; ultimate; intrinsic: absolute knowledge.
- (noun) 14. something that is not dependent upon external conditions for existence or for its specific nature, size, etc. (opposed to relative ).

From word.net unabridged:

- (noun) 1. something that is conceived or that exists independently and not in relation to other things; something that does not depend on anything else and is beyond human control; something that is not relative; "no mortal being can influence the absolute".

From Webster's Revised Unabridged Dictionary, © 1996, 1998 MICRA, Inc unabridged:



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3. Viewed apart from modifying influences or without comparison with other objects; actual; real; -- opposed to relative and comparative; as, absolute motion; absolute time or space.

5. Capable of being thought or conceived by itself alone; unconditioned; non-relative.

It is also noted that the Office Action has not provided any evidence that one of ordinary skill in the art would give the phrase "absolute movement" the interpretation that the Office Action has given it in light of the specification (e.g., paragraph [0004]) and the plain meanings of "absolute." It is further noted that the Advisory Action has not rebutted that U.S. Patent Nos. 4,570,217 and 5,376,946 show that one of ordinary skill in the art already knows that "absolute" and "relative" movement are different.

Accordingly, the rejection of claim 1 should be REVERSED. Furthermore, as claim 1 has been shown to be patentable over the applied reference, dependent claims 2, 3 and 12-15, it is respectfully submitted that claims 2, 3, 12, 13 and 15 are patentable over the applied reference(s) for at least the reasons set forth above with respect to claim 1.

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B. Rejection of claim 14 under 35 U.S.C. 103

The assignee respectfully notes that the correctness of the rejection under 35 U.S.C. 103 is premised on the correctness of the rejection under 35 U.S.C. 102(b). As the rejection under 35 U.S.C. 102(b) has been shown to be incorrect in section vii.A above, the rejection under 35 U.S.C. 103 must be incorrect as well. Accordingly, the rejection of claim 14 should be REVERSED.

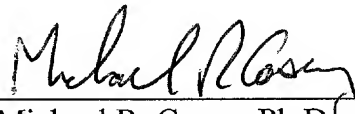
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Respectfully submitted,

By:

  
Michael R. Casey, Ph.D.  
Registration No.: 40,294

**CHARGE STATEMENT:** Deposit Account No. 501860, order no. **2540-0707**.

The Commissioner is hereby authorized to charge any fee specifically authorized hereafter, or any missing or insufficient fee(s) filed, or asserted to be filed, or which should have been filed herewith or concerning any paper filed hereafter, and which may be required under Rules 16-18 (missing or insufficiencies only) now or hereafter relative to this application and the resulting Official Document under Rule 20, or credit any overpayment, to our Accounting/Order Nos. shown above, for which purpose a duplicate copy of this sheet is attached

**This CHARGE STATEMENT does not authorize charge of the issue fee until/unless an issue fee transmittal sheet is filed.**

(viii). CLAIMS APPENDIX

Claim 1 (Previously Presented) A method of providing mouse synchronization between a logical mouse and an actual mouse, comprising:

testing an operating system of the logical mouse to determine if the operating system of the logical mouse supports the use of a USB-based human interface descriptor (HID) using absolute movement of a mouse cursor to an absolute position other than the origin;

utilizing a universal serial bus (USB) protocol to provide absolute movement of the mouse cursor on a host computer to an absolute position other than the origin if the operating system supports the use of a USB-based human interface descriptor (HID) using absolute movement of the mouse cursor to an absolute position other than the origin; and

synchronizing the position of a logical mouse and the position of an actual mouse using the absolute movement to the absolute position other than the origin without operator intervention.

Claim 2 (Previously Presented) The method of claim 1, wherein a virtual presence client (VPC) calculates said logical mouse position.

Claims 3-11 (Canceled)

Claim 12 (Previously Presented) The method of claim 1, wherein utilizing the universal serial bus (USB) protocol to provide the absolute movement of the mouse cursor comprises sending USB command across an IP network.

Claim 13 (Previously Presented) The method of claim 1, further comprising buffering USB commands between the actual mouse and the host computer.

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Claim 14 (Previously Presented) The method of claim 1, further comprising emulating the timing characteristics of the actual mouse when applying USB commands to the host computer.

Claim 15 (Previously Presented) The method of claim 12, further comprising aggregating mouse movement commands prior to sending the mouse movement commands across the IP network.

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(ix). EVIDENCE APPENDIX

The attached definition of “absolute” from “dictionary.com” was submitted on April 14, 2008 and considered by the examiner.



absolute

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*Dictionary.com Unabridged (v 1.1) - Cite This Source - Share This*

ab·so·lute Audio Help [ab-suh-loot, ab-suh-loot] Pronunciation Key

- Show IPA Pronunciation

- adjective

1. free from imperfection; complete; perfect: *absolute liberty*.
2. not mixed or adulterated; pure: *absolute alcohol*.
3. complete; outright. *an absolute lie; an absolute denial*.
4. free from restriction or limitation; not limited in any way: *absolute command; absolute freedom*.
5. unrestrained or unlimited by a constitution, counterbalancing group, etc., in the exercise of governmental power, esp. when arbitrary or despotic: *an absolute monarch*.
6. viewed independently; not comparative or relative; ultimate; intrinsic: *absolute knowledge*.
7. positive; certain: *absolute in opinion; absolute evidence*.
8. Grammar.
  - a. relatively independent syntactically. The construction *It being Sunday in It being Sunday, the family went to church* is an absolute construction.
  - b. (of a usually transitive verb) used without an object, as the verb *give* in *The charity asked him to give*.
  - c. (of an adjective) having its noun understood, not expressed, as *poor* in *The poor are always with us*.
  - d. characterizing the phonological form of a word or phrase occurring by itself, not influenced by surrounding forms, as *not* in *is not* (as opposed to *isn't*), or *will* in *they will* (as opposed to *they'll*). Compare *SANDHI*.

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9. *Physics.*

- a. independent of arbitrary standards or of particular properties of substances or systems: *absolute humidity*.
- b. pertaining to a system of units, as the centimeter-gram-second system, based on some primary units, esp. units of length, mass, and time.
- c. pertaining to a measurement based on an absolute zero or unit: *absolute temperature*.

10. *Education.* noting or pertaining to the scale of a grading system based on an individual's performance considered as representing his or her knowledge of a given subject regardless of the performance of others in a group: *The math department marks on an absolute scale*. Compare *CURVE* (def. 10).

11. *Climatology.* noting or pertaining to the highest or lowest value of a meteorological quantity recorded during a given, usually long, period of time: *absolute maximum temperature*.

12. *Mathematics.* (of an inequality) indicating that the expression is true for all values of the variable, as  $x^2 + 1 > 0$  for all real numbers  $x$ ; unconditional. Compare *CONDITIONAL* (def. 6).

13. *Computers.* machine-specific and requiring no translation (opposed to *SYMBOLIC*): *absolute coding*; *absolute address*.

- *noun*

14. something that is not dependent upon external conditions for existence or for its specific nature, size, etc. (opposed to *RELATIVE*).

15. *the absolute,*

- a. something that is free from any restriction or condition.
- b. something that is independent of some or all relations.
- c. something that is perfect or complete.
- d. (in Hegelianism) the world process operating in accordance with the absolute idea.

[Origin: 1350-1400; ME < L *absolūtus* free, unrestricted, unconditioned (ptp. of *absolvere* to *ABSOLVE*), equiv. to *ab-* *AB-* + *solū-* loosen + *-tus* ptp. suffix]

-- *Related forms*

*ab·so·lute·ness*, *noun*


-- *Synonyms* 2. unadulterated, sheer, unqualified, undiluted, uncontaminated. 4. total, unconditional. *ABSOLUTE*, *UNQUALIFIED*, *UTTER* all mean unmodified. *ABSOLUTE* implies an unquestionable finality *an absolute coward*. *UNQUALIFIED* means without reservations or conditions: *an unqualified success*. *UTTER* expresses totality or entirety: *an utter failure*. 5. autocratic, dictatorial, totalitarian. 6. categorical. 7. unequivocal, definite, sure.

-- *Antonyms* 1. imperfect, flawed. 2. mixed, diluted, contaminated. 4. qualified. 6. relative.

*Dictionary.com Unabridged (v 1.1)*

*Based on the Random House Unabridged Dictionary, © Random House, Inc. 2006*

*American Heritage Dictionary -- Cite This Source -- Share This*

*ab·so·lute*  *Audio Help* (ăb'sə-lōōt', āb'sə-lōōt') *Pronunciation Key*

1. Perfect in quality or nature, complete.
2. Not mixed, pure. See Synonyms at *pure*.
3.
  - a. Not limited by restrictions or exceptions, unconditional. *absolute trust*.
  - b. Unqualified in extent or degree; total. *absolute silence*. See Usage Note at *infinite*.
  - c. Of, relating to, or being a word, phrase, or construction that is isolated syntactically from the rest of a sentence, as *the referee having finally arrived* in *The referee having finally arrived, the game began*.
  - d. Of, relating to, or being a transitive verb when its object is implied but not stated. For example, *inspires* in *We have a teacher who inspires* is an absolute verb.
  - e. Of, relating to, or being an adjective or pronoun that stands alone when the noun it modifies is being implied but not stated. For example, in *Theirs were the best*, *theirs* is an absolute pronoun and *best* is an absolute adjective.
  - f. Relating to measurements or units of measurement derived from fundamental units of length, mass, and time.
  - g. Relating to absolute temperature.
4. Unconstrained by constitutional or other provisions. *an absolute ruler*.
5. Not to be doubted or questioned, positive: *absolute proof*.
6. *Grammar*
  - a. Of, relating to, or being a word, phrase, or construction that is isolated syntactically from the rest of a sentence, as *the referee having finally arrived* in *The referee having finally arrived, the game began*.
  - b. Of, relating to, or being a transitive verb when its object is implied but not stated. For example, *inspires* in *We have a teacher who inspires* is an absolute verb.
  - c. Of, relating to, or being an adjective or pronoun that stands alone when the noun it modifies is being implied but not stated. For example, in *Theirs were the best*, *theirs* is an absolute pronoun and *best* is an absolute adjective.
  - d. Relating to measurements or units of measurement derived from fundamental units of length, mass, and time.
  - e. Relating to absolute temperature.
7. *Physics*
  - a. Relating to measurements or units of measurement derived from fundamental units of length, mass, and time.
  - b. Relating to absolute temperature.
8. *Law* Complete and unconditional; final.

n.

1. Something that is absolute.
2. **Absolute Philosophy**
  - a. Something regarded as the ultimate basis of all thought and being. Used with *the*.
  - b. Something regarded as independent of and unrelated to anything else.

[Middle English *absolut*, from Latin *absolūtus*, *unrestricted*, past participle of *absolvere*, *to absolve*: *ab-*, *away*; see *ab-*<sup>1</sup> + *solvere*, *to loosen*; see *leu-* in Indo-European roots.]

ab'so-lute'ness *n.*

**Usage Note:** An absolute term denotes a property that a thing either can or cannot have. Such terms include *absolute* itself, *chief*, *complete*, *perfect*, *prime*, *unique*, and mathematical terms



be compared, as by *more* and *most*, or used with an intensive modifier, such as *very* or *so*. Something either is complete or it isn't—it cannot be more complete than something else. Consequently, sentences such as *He wanted to make his record collection more complete*, and *You can improve the sketch by making the lines more perpendicular*, are often criticized as illogical. Such criticism confuses pure logic or a mathematical ideal with the rough approximations that are frequently needed in ordinary language. Certainly in some contexts we should use words strictly logically; otherwise teaching mathematics would be impossible. But we often think in terms of a scale or continuum rather than in clearly marked either/or categories. Thus, we may think of a statement as either logically true or false, but we also know that there are degrees of truthfulness and falsehood. Similarly, there may be degrees of completeness to a record collection, and some lines may be more perpendicular—that is, they may more nearly approximate mathematical perpendicularity—than other lines. Accordingly, the objection to modification of an absolute term like *parallel* by degree seems absurd when it is used metaphorically, as in *The difficulties faced by the Republicans are quite parallel to those that confronted the Democrats four years ago*. This statement describes the structural correspondence between two distinct situations, and concerns about the possibility of intersection seem remote indeed. In this sense, parallelism is clearly a matter of degree, so one should not hesitate to modify *parallel* accordingly. See Usage Notes at equal, infinite, unique.

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Online Etymology Dictionary -- Cite This Source -- Share This  
**absolute**

c.1374, from M.Fr. *absolut*, from L. *absolutus*, pp. of *absolvere* "to set free, make separate" (see absolve). Most of the current senses were in L. Sense evolution is from "detached, disengaged," thus "perfect, pure." Meaning "despotic" (1612) is from notion of "absolute in position;" hence *absolutism*, 1753 in theology, 1830 in politics, first used by Gen. Perronet Thompson. *Absolutely* as an Amer.Eng. colloquial emphatic is first recorded 1892.

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**absolute**

*adjective*

1. perfect or complete or pure; "absolute loyalty"; "absolute silence"; "absolute truth"; "absolute alcohol" [ant: comparative]
2. complete and without restriction or qualification; sometimes used informally as intensifiers, "absolute freedom"; "an absolute dimwit"; "a downright lie"; "out-and-out mayhem"; "an out-and-out lie"; "a rank outsider"; "many right-down vices"; "got the job through sheer persistence"; "sheer stupidity"
3. not limited by law; "an absolute monarch"

absolute guarantee to respect the nation's authority"  
5. not capable of being violated or infringed; "infrangible human rights"

**noun**

1. something that is conceived or that exists independently and not in relation to other things; something that does not depend on anything else and is beyond human control; something that is not relative; "no mortal being can influence the absolute"

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*Kernerman English Multilingual Dictionary (Beta Version) – Cite This Source – Share This*

**absolute** [ˈæbsəlu:t] *adjective*

complete

Example: *absolute honesty*

Arabic: كامل

Chinese (Simplified): 绝对的

Chinese (Traditional): 絕對的, 完全的

Czech: absolutní, naprostý

Danish: absolut; total; fuldstændig

Dutch: absoluut

Estonian: absoluutne

Finnish: ehdoton

French: absolu

German: absolut

Greek: απόλυτος

Hungarian: teljes

Icelandic: algjör

Indonesian: mutlak

Italian: assoluto

Japanese: 絶対的

Korean: 완전한, 절대적인

Latvian: absolūts; pilnīgs

Lithuanian: visiškas, absoliutus

Norwegian: absolutt, fullstendig, ubetinget

Polish: całkowity

Portuguese (Brazil): absoluto

Portuguese (Portugal): absoluto

Romanian: absolut, deplin, total

Russian: абсолютный

Slovak: absolútny

Slovenian: popoln

Spanish: absoluto

Swedish: absolut, fullständig

Turkish: tam

See also: *absolutely*

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*Merriam-Webster's Medical Dictionary -- Cite This Source -- Share This*

Main Entry: **ab·so·lute**

Pronunciation: "ab-sə-'lūt

Function: *adjective*

1 : pure or relatively free from mixture <*absolute methanol*>

2 : relating to, measured on, or being a temperature scale based on absolute zero <*absolute temperature*>

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Main Entry: **ab·so·lute**

Function: *adjective*

1 **a** : free from qualification, condition, exception, or restriction <rights that even seem *absolute* have these qualifications — *Long v. Rockwood*, 277 U.S. 142 (1927)> —see also *absolute ownership* at OWNERSHIP —compare QUALIFIED **b** *in the civil law of Louisiana* : having or allowing no legal effect <an *absolute* impediment>  
2 : final and not liable to modification —sometimes used after the word it modifies <divorce *absolute*> —compare NISI —**ab·so·lute·ly** *adverb*

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*Webster's Revised Unabridged Dictionary* – [Cite This Source](#) – [Share This](#)  
**Absolute**

Ab'so'lute\, a. [L. absolutus, p. p. of absolvere. cf. F. absolu. See Absolve.]

1. Loosed from any limitation or condition; uncontrolled; unrestricted; unconditional, as, absolute authority, monarchy, sovereignty, an absolute promise or command; absolute power; an absolute monarch.  
2. Complete in itself; perfect; consummate; faultless; as, absolute perfection; absolute beauty.

So absolute she seems, And in herself complete. --Milton.

3. Viewed apart from modifying influences or without comparison with other objects; actual; real; -- opposed to *relative* and *comparative*; as, absolute motion; absolute time or space.

Note: Absolute rights and duties are such as pertain to man in a state of nature as contradistinguished from relative rights and duties, or such as pertain to him in his social relations.

4. Loosed from, or unconnected by, dependence on any other being; self-existent; self-sufficing.

Note: In this sense God is called the Absolute by the Theist. The term is also applied by the Pantheist to the universe, or the total of all existence, as only capable of relations in its parts to each other and to the whole, and as dependent for its existence and its phenomena on its mutually depending forces and their laws.

5. Capable of being thought or conceived by itself alone; unconditioned; non-relative.

Note: It is in dispute among philosopher whether the term, in this sense, is not applied to a mere logical fiction or abstraction, or whether the absolute, as thus defined, can be known, as a reality, by the human intellect.

To Cusa we can indeed articulately trace, word and thing, the recent philosophy of the absolute. --Sir W. Hamilton.

6. Positive; clear; certain; not doubtful. [R.]

I am absolute 't was very Cloten. --Shak.

7. Authoritative; peremptory. [R.]

The peddler stopped, and tapped her on the head, With absolute

8. (Chem.) Pure; unmixed; as, absolute alcohol.

9. (Gram.) Not immediately dependent on the other parts of the sentence in government; as, the case absolute. See Ablative absolute, under Ablative.

Absolute curvature (Geom.), that curvature of a curve of double curvature, which is measured in the osculating plane of the curve.

Absolute equation (Astron.), the sum of the optic and eccentric equations.

Absolute space (Physics), space considered without relation to material limits or objects.

Absolute terms. (Alg.), such as are known, or which do not contain the unknown quantity. -- Davies & Peck.

Absolute temperature (Physics), the temperature as measured on a scale determined by certain general thermo-dynamic principles, and reckoned from the absolute zero.

Absolute zero (Physics), the beginning, or zero point, in the scale of absolute temperature. It is equivalent to -273[deg] centigrade or -459.4[deg] Fahrenheit.

Syn: Positive; peremptory; certain; unconditional; unlimited; unrestricted; unqualified; arbitrary; despotic; autocratic.

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**Absolute**

Ab'so'lute\, n. (Geom.) In a plane, the two imaginary circular points at infinity; in space of three dimensions, the imaginary circle at infinity.  
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Cur'va\*ture\ (k?r'v?-t?r; 135), n. [L. curvatura. See Curve.]

1. The act of curving, or the state of being bent or curved; a curving or bending, normal or abnormal, as of a line or surface from a rectilinear direction; a bend; a curve. ---Cowper.

The elegant curvature of their fronds. ---Darwin.

2. (Math.) The amount of degree of bending of a mathematical curve, or the tendency at any point to depart from a tangent drawn to the curve at that point.

Aberrancy of curvature (Geom.), the deviation of a curve from a circular form.

Absolute curvature. See under Absolute.

Angle of curvature (Geom.), one that expresses the amount of curvature of a curve.

Chord of curvature. See under Chord.

Circle of curvature. See Osculating circle of a curve. under Circle.

Curvature of the spine (Med.), an abnormal curving of the spine, especially in a lateral direction.

Radius of curvature, the radius of the circle of curvature, or osculatory circle, at any point of a curve.

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E\*qua"tion\, n. [L. aequatio an equalizing: cf. F. [e]quation equation. See Equate.]

1. A making equal, equal division; equality; equilibrium.

Again the golden day resumed its right, And ruled in just equation with the night. --Rowe.

2. (Math.) An expression of the condition of equality between two algebraic quantities or sets of quantities, the sign = being placed between them, as, a binomial equation; a quadratic equation; an algebraic equation; a transcendental equation; an exponential equation; a logarithmic equation; a differential equation, etc.

3. (Astron.) A quantity to be applied in computing the mean place or other element of a celestial body; that is, any one of the several quantities to be added to, or taken from, its position as calculated on the hypothesis of a mean uniform motion, in order to find its true position as resulting from its actual and unequal motion.

Absolute equation. See under Absolute.

Equation box, or Equational box, a system of differential gearing used in spinning machines for regulating the twist of the yarn. It resembles gearing used in equation clocks for showing apparent time.

Equation of the center (Astron.), the difference between the place of a planet as supposed to move uniformly in a circle, and its place as moving in an ellipse.

Equations of condition (Math.), equations formed for deducing the true values of certain quantities from others on which they depend, when different sets of the latter, as given by observation, would yield different values of the quantities sought, and the number of equations that may be found is greater than the number of unknown quantities.

Equation of a curve (Math.), an equation which expresses the relation between the co[<sup>o</sup>]rdinates of every point in the curve.

Equation of equinoxes (Astron.), the difference between the mean and apparent places of the equinox.

Equation of payments (Arith.), the process of finding the mean time of payment of several sums due at different times.

Equation of time (Astron.), the difference between mean and apparent time, or between the time of day indicated by the sun, and that by a perfect clock going uniformly all the year round.

Equation clock or watch, a timepiece made to exhibit the differences between mean solar and apparent solar time. --Knight.

Normal equation. See under Normal.

and the true qualities or peculiarities in the observer; particularly the difference, in an average of a large number of observation, between the instant when an observer notes a phenomenon, as the transit of a star, and the assumed instant of its actual occurrence; or, relatively, the difference between these instants as noted by two observers. It is usually only a fraction of a second; --- sometimes applied loosely to differences of judgment or method occasioned by temperamental qualities of individuals.

**Theory of equations** (Math.), the branch of algebra that treats of the properties of a single algebraic equation of any degree containing one unknown quantity.

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**Space** \ (sp[=a]s), n. [OE. space, F. espace, from L. spatium space; cf. Gr. spa<sup>n</sup> to draw, to tear, perh. akin to E. span. Cf. *Expatiate*.]

1. Extension, considered independently of anything which it may contain; that which makes extended objects conceivable and possible.

Pure space is capable neither of resistance nor motion. ---Locke.

2. Place, having more or less extension; room.

They gave him chase, and hunted him as hare; Long had he no space to dwell [in]. ---R. of Brunne.

While I have time and space. ---Chaucer.

3. A quantity or portion of extension; distance from one thing to another; an interval between any two or more objects; as, the space between two stars or two hills, the sound was heard for the space of a mile.

Put a space betwixt drove and drove. ---Gen. xxxii. 16.

4. Quantity of time; an interval between two points of time; duration; time. "Grace God gave him here, this land to keep long space." ---R. of brunne.

Nine times the space that measures day and night. ---Milton.

God may defer his judgments for a time, and give a people a longer space of repentance. ---Tillotson.

5. A short time, a while. [R.] "To stay your deadly strife a space." ---Spenser.

6. Walk; track; path, course. [Obs.]

This ilke [same] monk let old things pace, And held after the new world the space. ---Chaucer.

7. (print.) (a) A small piece of metal cast lower than a face type, so as not to receive the ink in printing, -- used to separate words or letters. (b) The distance or interval between words or letters in the lines, or between lines, as in books.

**Note:** Spaces are of different thicknesses to enable the compositor to arrange the words at equal distances from each other in the same line.

staff.

Absolute space, Euclidian space, etc. See under Absolute, Euclidian, etc.

Space line (Print.), a thin piece of metal used by printers to open the lines of type to a regular distance from each other, and for other purposes; a lead. --Hansard.

Space rule (Print.), a fine, thin, short metal rule of the same height as the type, used in printing short lines in tabular matter.

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Tem"per\*a\*ture\, n. [F. temp[er]ature, L. temperatura due measure, proportion, temper, temperament.]

1. Constitution; state; degree of any quality.

The best composition and temperature is, to have openness in fame and opinion, secrecy in habit, dissimulation in seasonable use, and a power to feign, if there be no remedy. --Bacon.

Memory depends upon the consistence and the temperature of the brain. --I. Watts.

2. Freedom from passion, moderation. [Obs.]

In that proud port, which her so goodly graceth, Most goodly temperature you may descry. --Spenser.

3. (Physics) Condition with respect to heat or cold, especially as indicated by the sensation produced, or by the thermometer or pyrometer; degree of heat or cold; as, the temperature of the air; high temperature; low temperature; temperature of freezing or of boiling.

4. Mixture; compound. [Obs.]

Made a temperature of brass and iron together. --Holland.

Absolute temperature. (Physics) See under Absolute.

Animal temperature (Physiol.), the nearly constant temperature maintained in the bodies of warm-blooded (homoiothermal) animals during life. The ultimate source of the heat is to be found in the potential energy of the food and the oxygen which is absorbed from the air during respiration. See Homoiothermal.

Temperature sense (Physiol.), the faculty of perceiving cold and warmth, and so of perceiving differences of temperature in external objects. ---H. N. Martin.

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**Absolute**

Ze"ro\, n.; pl. Zeros or Zeroes. [F. z[er]o, from Ar. [c]afrun, [c]ifrun, empty, a cipher. Cf. Cipher.]

1. (Arith.) A cipher, nothing; naught.

2. The point from which the graduation of a scale, as of a thermometer, commences.

Note: Zero in the Centigrade, or Celsius thermometer, and in the Réaumur thermometer, is at the point at which water congeals. The zero of the Fahrenheit thermometer is fixed at the point at which the mercury stands when immersed in a mixture of snow and common salt. In Wedgwood's pyrometer, the zero corresponds with 1077[deg] on the Fahrenheit scale. See Illustr. of Thermometer.

3. Fig.: The lowest point; the point of exhaustion; as, his patience had nearly reached zero.

Absolute zero. See under Absolute.

Zero method (Physics), a method of comparing, or measuring, forces, electric currents, etc., by so opposing them that the pointer of an indicating apparatus, or the needle of a galvanometer, remains at, or is brought to, zero, as contrasted with methods in which the deflection is observed directly; --- called also null method.

Zero point, the point indicating zero, or the commencement of a scale or reckoning.

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